

SUPPORTING INFORMATION

Tracing the evolutionary history of *Talpa europaea* by mtDNA phylogeography and species distribution modelling: evidence of divergent lineages and climate change influence

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Appendix S4: Pearson correlation coefficient for Worldclim bioclimatic variables pairwise comparisons and results of the multivariate environmental similarity surface (MESS) index

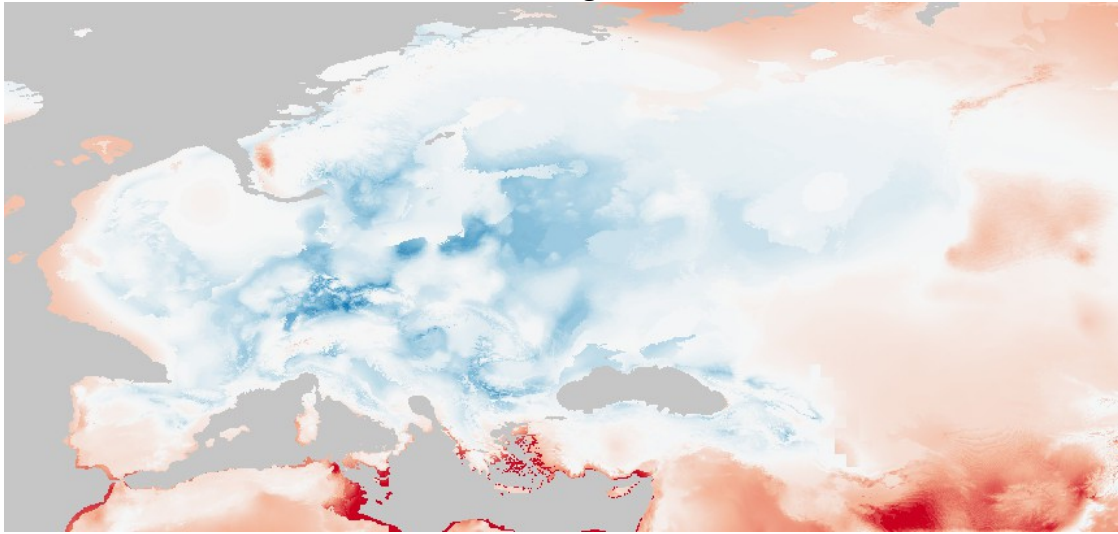
Pairwise P correlation test: r value are reported for all the comparisons. Generally r values are very low. Only in three comparisons r values are higher of 0.75. This suggest that bias due to autocorrelation is low in our dataset

	Bio1	Bio2	Bio3	Bio7	Bio9	Bio10	Bio14	Bio15	Bio16	Bio18
Bio1										
Bio2	0.1334092234									
Bio3	0.6833467814	0.1977276827								
Bio7	-0.5918915958	0.4689330766	-0.75069365							
Bio9	0.7882977016	0.0378329696	0.7436550639	-0.6524823312						
Bio10	0.7041516442	0.4505930432	0.1030737429	0.1378085309	0.3825859921					
Bio14	0.2477891381	-0.1876213121	0.5664039691	-0.6053437372	0.3917567035	-0.2514591817				
Bio15	-0.4750930024	0.0556436644	-0.5461315	0.5138782867	-0.5276021071	-0.138613637	-0.5185774052			
Bio16	-0.0212554836	-0.2302107054	0.2728991802	-0.3600906668	0.1547237236	-0.3626987206	0.7257638921	0.1438704507		
Bio18	-0.3688735291	-0.0985449365	-0.0860392585	0.0084216046	-0.4149428109	-0.4862327563	0.4536653719	0.3414383924	0.7032689333	
Bio19	0.269968146	-0.274704566	0.5571405532	-0.6201337595	0.5341099213	-0.2114765002	0.8634436435	-0.377291413	0.8001349332	0.2629561098

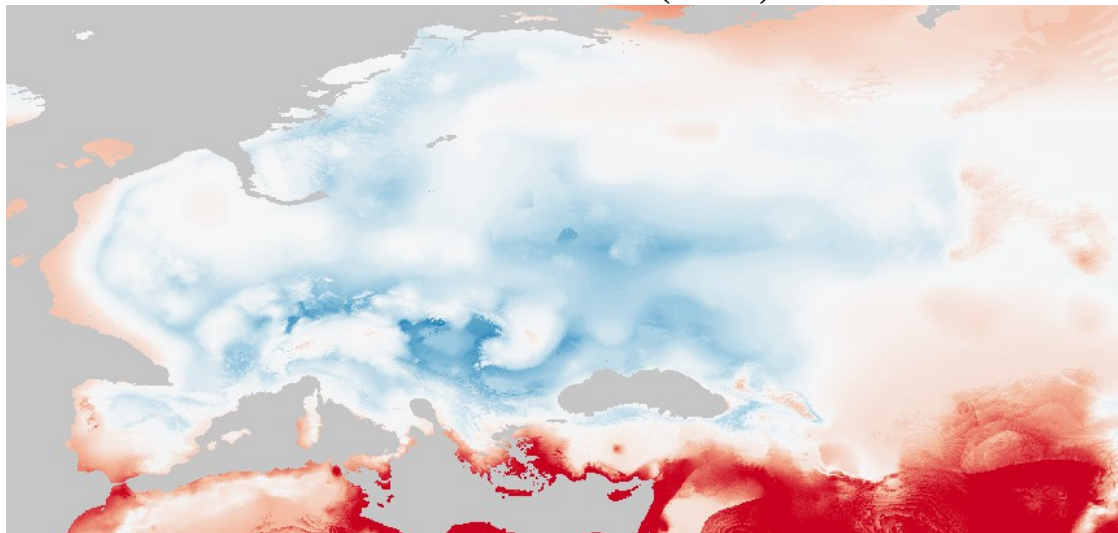
BIO1 = Annual Mean Temperature
BIO2 = Mean Diurnal Range (Mean of monthly (max temp - min temp))
BIO3 = Isothermality (BIO2/BIO7) (* 100)
BIO7 = Temperature Annual Range (BIO5-BIO6)
BIO9 = Mean Temperature of Driest Quarter
BIO10 = Mean Temperature of Warmest Quarter
BIO14 = Precipitation of Driest Month
BIO15 = Precipitation Seasonality (Coefficient of Variation)
BIO16 = Precipitation of Wettest Quarter
BIO18 = Precipitation of Warmest Quarter
BIO19 = Precipitation of Coldest Quarter

The MESS map obtained for the last interglacial (LIG) and the last glacial maximum (LGM) using CCSM and MIROC predictions. blue, positive; white, around zero; red, negative; More extreme values are represented with more intense colours.

Last Interglacial



Last Glacial Maximum (CCSM)



Last Glacial Maximum (MIROC)

